

Serial No.: 09/828,931  
Art Unit: 2144

Docket No. 18961.00  
Customer No. 37833

**Listing of Claims:**

Claims 1-29. (*Canceled*)

1 Claim 30. (*New*) An Internet search service system comprising:

2 a search service provider (SSP) level search subsystem located on an SSP server for an  
3 SSP site, said SSP level search subsystem using web units as indexing objects and search results,  
4 each web unit being an information entity collection of at least one web page of a web site and  
5 web unit index and categorization metadata for categorizing each web unit of the web site, each  
6 web page of each web unit being related to and integrated in the associated web unit according to  
7 a predetermined categorization criteria; and

8 an in-site level search subsystem located on a web site server for an associated web site,  
9 said in-site level search subsystem being configured to effect searches limited to all web pages of  
10 the associated web site;

11 wherein said in-site level search subsystem is communicatively linked to said SSP level  
12 search subsystem, and is configured to receive, carry, and execute an SSP level search query  
13 from the SSP level search subsystem.

1 Claim 31. (*New*) The system according to claim 30, wherein said SSP level search  
2 subsystem comprises:

3 self-submission means for submitting web unit index and categorization data for a  
4 predetermined web unit;

5 data organizer means for indexing and sorting web unit index and categorization data  
6 obtained by said self-submission means; and

7 search service means for obtaining web unit search results based on queries, narrowing  
8 down obtained web unit search results according to selected narrow down variables, and  
9 providing personalized service.

1 Claim 32. (*New*) The system according to claim 31, wherein said data organizer means  
2 comprises:

3 a web unit database with an index database and a multi-directory database, said index  
4 database being configured to store input information of web units, said multi-directory database  
5 being configured to store web unit index and categorization data categorized according to a  
6 subject classification; and said web unit database configured to store indexed and sorted web unit  
7 index and categorization data.

1 Claim 33. (New) The system according to claim 31, wherein said self-submission means  
2 comprises downloadable submission software configured to provide forms for web unit  
3 self-submission.

1 Claim 34. (New) The system according to claim 33, wherein said forms include an index  
2 form, a multi-directory entry form, a tutorial for submission, a suggestion form.

1 Claim 35. (New) The system according to claim 33, wherein said downloadable  
2 submission software is configured to detect and verify submitted data.

1 Claim 36. (New) The system according to claim 33, wherein said downloadable  
2 submission software includes update reminding software for reminding users to provide new web  
3 unit information.

1 Claim 37. (New) The system according to claim 33, wherein said downloadable  
2 submission software is configured to detect any update or change in web units.

1           Claim 38. (*New*) The system according to claim 31, wherein said search service means  
2 comprises:

3           a personal directory for recording web units visited; and

4           a personal search agent for conducting searches.

1           Claim 39. (*New*) The system according to claim 31, wherein said search service means is  
2 configured to analyze search patterns, provide search improvement suggestions, and recommend  
3 new web units based on the analysis.

1           Claim 40. (*New*) The system according to claim 31, further including a user feedback  
2 form for a user to rate web units under certain quality criteria, to report any erroneous web unit  
3 submission, and to suggest improvement on search quality.

1           Claim 41. (*New*) The system according to claim 31, wherein said search service means is  
2 configured to post any unsolved search query for an Internet community to provide a solution.

1           Claim 42. (New) The system according to claim 30, wherein said in-site level search  
2 subsystem comprises:

3           means for conveying feedback of users to web site owners;  
4           a web page authoring tool to simplify metadata implementation in web page writing; and  
5           an in-site search tool kit.

1           Claim 43. (New) The system according to claim 42, wherein said in-site level search  
2 subsystem further comprises:

3           at least one web robot configured to understand metadata created by said authoring tool,  
4 and to index data within a web site;  
5           an in-site index database created by the said web robot; and  
6           an in-site search engine program to conduct an in-site search.

1           Claim 44. (New) The system according to claim 43, wherein said in-site search engine  
2 program is communicatively linked to a personal search agent, and can initiate an in-site search  
3 and provide search results from the in-site search.

1           Claim 45. (New) An Internet search service method comprising:  
2           providing a search service provider (SSP) level search subsystem located on an SSP  
3 server for an SSP site, the SSP level search subsystem using web units as indexing objects and  
4 search results, each web unit being an information entity collection of at least one web page of a  
5 web site and web unit index and categorization metadata for categorizing each web unit of the  
6 web site, each web page of each web unit being related to and integrated in the associated web  
7 unit according to a predetermined categorization criteria; and  
8           providing an in-site level search subsystem located on a web site server for an associated  
9 web site, the in-site level search subsystem being configured to effect searches limited to all web  
10 pages of the associated web site;  
11           communicatively linking the in-site level search subsystem to the SSP level search  
12 subsystem; and  
13           configuring the in-site level search subsystem to receive, carry, and execute an SSP level  
14 search query from the SSP level search subsystem.

1 Claim 46. (*New*) The method according to claim 45, wherein said providing an SSP level  
2 search subsystem step further comprises:

3 submitting web unit index and categorization data for a predetermined web unit;

4 indexing and sorting submitted web unit index and categorization data;

5 obtaining web unit search results based on queries; and

6 narrowing down the obtained web unit search results.

1 Claim 47. (*New*) The method according to claim 46, wherein said indexing and sorting  
2 step further comprises:

3 providing a web unit database with an index database and a multi-directory database;

4 storing input information of web units in the index database;

5 storing web unit index and categorization data categorized according to a subject  
6 classification in the multi-directory database; and

7 indexing and sorting web unit index and categorization data on the web unit database.

1 Claim 48. (*New*) The method according to claim 46, wherein said submitting web unit  
2 index and categorization data step further comprises providing downloadable submission  
3 software configured to provide forms for web unit self-submission, the forms including an index  
4 form, a multi-directory entry form, a tutorial for submission, and a suggestion form.

1           Claim 49. (New) The method according to claim 48, wherein said providing  
2           downloadable submission software step further comprises configuring said downloadable  
3           submission software to detect and verify submitted data.

1           Claim 50. (New) The method according to claim 48, wherein said providing  
2           downloadable submission software step further comprises providing update reminding software  
3           for reminding users to provide new web unit information.

1           Claim 51. (New) The method according to claim 48, wherein said providing  
2           downloadable submission software step further comprises detecting any update or change in web  
3           units with the downloadable submission software.

1           Claim 52. (New) The method according to claim 45, wherein said providing an SSP level  
2           search subsystem step further comprises:  
3                 recording web units visited in a personal directory; and  
4                 conducting searches with a personal search agent.



1 Claim 53. (*New*) The method according to claim 45, wherein said providing an SSP level  
2 search subsystem step further comprises:

3 analyzing search patterns;  
4 providing search improvement suggestions; and  
5 recommending new web units based on the analysis.

1 Claim 54. (*New*) The method according to claim 45, wherein said providing an SSP level  
2 search subsystem step further comprises:

3 providing a user feedback form for user to rate web units under certain quality criteria;  
4 reporting any erroneous web unit submission; and  
5 suggesting improvement on search quality.

1 Claim 55. (*New*) The method according to claim 45, wherein said providing an SSP level  
2 search subsystem step further comprises posting any unsolved search query for an Internet  
3 community to provide a solution.

1 Claim 56. (New) The method according to claim 45, wherein said providing an in-site  
2 level search subsystem step further comprises:

3 conveying feedback of users to web site owners;  
4 simplifying metadata implementation in web page writing with a web page authoring  
5 tool; and  
6 providing an in-site search tool kit.

1 Claim 57. (New) The method according to claim 56, wherein said in-site level search  
2 subsystem comprises further comprises:

3 understanding metadata created by the web page authoring tool, and indexing data within  
4 a web site with at least one web robot,  
5 creating an in-site index database using the web robot, and  
6 conducting an in-site search with an in-site search engine program.

1 Claim 58. (New) The method according to claim 57, wherein said in-site level search  
2 subsystem comprises further comprises:

3 communicatively linking the in-site search engine program to a personal search agent;  
4 initiating an in-site search; and  
5 providing search results from the in-site search.